

Claims

1. A fixture system comprising:

a base having at least one set of support brackets;

a first support member, adapted for connection to one set of support brackets, wherein the support member includes a shaft having a coupling joined thereto;

a first connector, extending through one set of support brackets and the shaft, for securing the support member to the one set of support brackets; and

a rod having a first end and a second end, wherein the first end is coupled to the coupling.

2. The system of claim 1, wherein the at least one set of support brackets is welded to the base.

3. The system of claim 1, wherein the at least one set of support brackets each include:

a thru-hole; and

a fastener, positioned proximate the thru-hole.

4. The system of claim 3, wherein the connector includes a pair of flared handles and a threaded portion for engaging the thru-hole of the one set of support brackets and threadedly securing

4 to the fastener.

1 5. The system of claim 1, wherein the base includes a threaded
2 aperture.

1 6. The system of claim 1, wherein the coupling is threaded and is
2 welded to the shaft.

7. The system of claim 1, wherein the rod is threaded.

1 8. The system of claim 1, further comprising a housing that
2 engages the rod, wherein the housing comprises:
3 a channel; and
4 a housing coupling affixed to the channel.

9. The system of claim 8, wherein the channel is metal.

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1 10. The system of claim 8, wherein the housing coupling is
2 threaded and is welded to the channel.

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1 11. The system of claim 8 wherein the second end of the rod is
2 coupled to the housing coupling.

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1 12. The system of claim 11, further comprising means for securing
2 the second end of the rod to the housing coupling.

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13. The system of claim 8, further comprising a second support
2 member coupled to the housing, wherein the second support member
3 ~~also includes a shaft having a coupling joined thereto~~

1 14. The system of claim 13, further comprising a second connector
2 for securing the second support member to the housing.

15. The system of claim 14, further comprising a second rod
2 having a first end and a second end, wherein the first end of the
3 second rod is coupled to the coupling of the second support
4 member.

1 16. The system of claim 15, further comprising means for locking
2 the first end of the second rod to the coupling of the second
3 support member.

1 17. The system of claim 15, further ~~comprising a tool coupled to~~
2 ~~the second end of the second rod.~~

1 18. The system of claim 1, further comprising a stand that is
2 adapted to couple to the base. *a*

1 19. The system of claim 18, wherein the stand comprises:
2 a mounting plate;
3 a channel secured to the mounting plate;
4 a first pipe segment affixed to the channel;
5 a second pipe segment for slidably engaging the first pipe
6 segment, wherein the second pipe segment includes an end that is
7 threaded; and
8 means for locking the second pipe segment into place within
9 the first pipe segment.

1 20. The system of claim 19, wherein the threaded end of the
2 second pipe segment is coupled to a bottom side of the aperture
3 in the base.

1 21. The system of claim 19, wherein the means for locking
2 comprises a connector.

1 22. A fixture system comprising:

2 a first rod having a first end and a second end;

3 a housing having a channel and a housing coupling, wherein
4 the second end of the first rod is coupled to the housing
5 coupling;

6 a first support member having a shaft and a coupling,
7 wherein the shaft is coupled to the channel of the housing; and

8 a second rod having a first end and a second end, wherein
9 the first end of the second rod is coupled to the coupling of the
10 support member.

11 23. The system of claim 22, further comprising means for locking
12 the rods to the couplings.

13 24. The system of claim 22, further comprising means for locking
14 the support member to the housing.

15 25. The system of claim 22, wherein the second end of the second
16 rod is coupled to a tool and wherein the tool comprises:

17 a tool coupling;

18 a shaft, affixed to the tool coupling, wherein the shaft has
19 a first thru-hole;

20 a support segment affixed to the shaft; and

21 a tip, affixed to the support segment, wherein the tip has a

8 second thru-hole.

26. The system of claim 22, further comprising:

a base; and

a second support member having a shaft and a coupling,

wherein the first end of the first rod is coupled to the coupling

of the second support member, and wherein the shaft of the second

support member is coupled to the base.

27. The system of claim 26, wherein the base includes a magnet.

28. The system of claim 26, wherein the base is a clamp.

29. The system of claim 26, wherein the base includes at least one set of support brackets.

30. The system of claim 29, wherein the base further includes a threaded aperture.

31. The system of claim 30, further comprising a base plate assembly, coupled within the aperture, wherein the assembly includes a base plate having a base coupling affixed thereto.

1 32. The system of claim 29, further comprising a stand coupled to
2 a lower portion of the aperture of the base.

1 33. The system of claim 32, wherein the stand comprises:

2 a mounting plate;

3 a channel secured to the mounting plate;

4 a first pipe segment affixed to the channel;

5 a second pipe segment for slidably engaging the first pipe
6 segment, wherein the second pipe segment includes an end that is
7 threaded; and

8 means for locking the second pipe segment into place within
9 the first pipe segment.

1 34. A fixture system, comprising
2 a clamp;
3 a first rod having a first end and a second end, wherein the
4 first end is coupled to the clamp;
5 a housing having a channel and a housing coupling, wherein
6 the second end of the rod is coupled to the housing coupling;
7 a support member having a shaft and a coupling, wherein the
8 shaft is coupled to the channel of the housing; and
9 a second rod having a first end and a second end, wherein
10 the first end of the second rod is coupled to the coupling of the
11 support member.

1 35. The system of claim 34, wherein rods threadedly engage the
2 couplings.

1 36. The system of claim 34, further comprising means for securing
2 the support member to the housing.

1 37. The system of claim 34, further comprising means for securing
2 the rods to the couplings.

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38. A base, comprising:

- 2 an elongate body having a first end and a second end;
- 3 a first set of support brackets positioned adjacent the
- 4 first end and a second set of support brackets positioned
- 5 adjacent the second end, wherein each set of support brackets
- 6 includes a thru-hole, and a fastener; and
- 7 a threaded aperture between the first and second ends of the
- 8 base.

1 39. The base plate of claim 38, wherein the fastener is affixed
2 to the channel, proximate the thru-hole.

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- 1 40. The base of claim 38, further comprising a base plate
- 2 assembly, wherein the base plate assembly includes:
- 3 a base plate;
- 4 a base coupling affixed to the base plate; and
- 5 a threaded segment for engaging the threaded aperture in the
- 6 base.

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- 1 41. The base plate assembly of claim 40, wherein the base plate
- 2 comprises a plurality of mounting slots for mounting a tool
- 3 thereon.

1 42. A fixture system comprising:

2 a housing having a channel and a housing coupling; and

3 a support member having a shaft and a coupling, wherein the

4 support member is adapted to couple to the housing.

1 43. The fixture system of claim 42, wherein the shaft of the

2 support member is adapted to couple to the channel of the

3 housing.

1 44. The fixture system of claim 42, further comprising a first

2 and a second rod, wherein an end of the first rod is adapted to

3 couple to the housing coupling and an end of the second rod is

4 adapted to couple to the coupling of the support member.

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